The

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 10, 2006.

Lindsey Lin

Applicant

: Aaron D. Bachelder, et al.

Confirmation No.8089

Application No.

: 10/811,075

Filed

JAN 1 3 2006

: March 24, 2004

Title

: EMERGENCY VEHICLE TRAFFIC SIGNAL PREEMPTION SYSTEM

Grp./Div.

: 2632

Examiner

: N/A

Docket No.

: 53860/C766

INFORMATION DISCLOSURE STATEMENT 37 CFR § 1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Post Office Box 7068 Pasadena, CA 91109-7068 January 10, 2006

Commissioner:

In compliance with the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the Manual of Patent Examining Procedure §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B listing the references that are known to applicant. Copies of each of the listed references are enclosed. This filing is timely because it is made during one of the periods described in 37 CFR § 1.97(b).

It is respectfully requested that the listed references be considered in the examination of this application and identified on the list of references cited on the patent issuing for this application. Applicant also requests that an initialed copy of FORM PTO/SB/08A/B be entered in the application file and returned to applicant with the next communication from the Office in accordance with MPEP § 609.

Application No. 10/811,075

Several of the listed references do not include dates. Applicant is disclosing these references to eliminate any question as to whether Applicant has complied with the duty of disclosure. Applicant does not, however, admit that these references are prior art.

The Commissioner is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 03-1728. Please show our docket number with any Deposit Account transaction. A copy of this paper is enclosed.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

Βv

Josephine E. Chan

626/795-9900

JEC/lal

Enclosures: PTO/SB/08A/B, w/references

LAL PAS661096.1-*-01/10/06 2:54 PM

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B

INFORMATION DISCLOS

STATEMENT BY APPLICANT

(use as many sheets as necessary)

Attorney Docket Number	53860/C766		
Application Number	10/811,075		
Filing Date	March 24, 2004		
Applicant(s)	Aaron D. Bachelder, et al.		
Group Art Unit	2632		
Examiner Name	N/A		

****		U.S. P.	ATENT DOCUMENTS	······································
EXAMINER INITIALS	Cite No. '	DOCUMENT NUMBER Number - Kind Code ² (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
		4,017,825	04-12-1977	Pichey
		4,223,295	09-16-1980	Bonner et al.
		4,234,967	11-18-1980	Henschel
		4,433,324	02-21-1984	Guillot
		4,704,610	11-03-1987	Smith et al.
		5,014,052	05-07-1991	Obeck
		5,083,125	01-21-1992	Brown et al.
		5,187,373	02-16-1993	Gregori
		5,187,476	02-16-1993	Hamer
		5,745,865	04-28-1998	Rostoker et al.
		5,889,475	03-30-1999	Klosinski et al.
		6,064,319	05-16-2000	Matta
	·,,	6,326,903 B1	12-04-2001	Gross et al.

	FOREIGN PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (•)

OTHER DOCUMENTS

EXAMINER SIGNATURE	 DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. ³Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B	Attorney Docket Number	53860/C766
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/811,075
	Filing Date	March 24, 2004
	Applicant(s)	Aaron D. Bachelder, et al.
(use as many sheets as necessary)	Group Art Unit	2632
	Examiner Name	N/A

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Intelligent Investment, World Highways/Routes Du Monde, January/February 1997, pg. 52.
		Traffic Preemption System for Emergency Vehicles Based on Differential GPS and Two-Way Radio. Priority One GPS, Midwest Traffic Products, Inc., 4 pages.
		Traffic Signal Preemption for Emergency and Transit Vehicles Based on Differential GPS & Two-Way Radio, Priority One GPS, Traffic Preemption System, 3 pgs.
		GPS and Radio Based Traffic Signal Preemption System for Emergency Vehicles, Priority One GPS Specification for Emergency Vehicles, 7 pgs.
		Emergency Preemption Systems, Inc. website, 2 pgs.
		Sonic Systems website, Traffic Preemption and Priority Systems, 2 pgs.
		Strobecom I Optical Preemption Detector, 1 pg.
		Strobecom I Preemption Detector Assemblies, 2 pgs.
		Strobecom I Interface Card and Card Cage, 2 pgs.
		The Priority One GPS Concept for Emergency Vehicles, http://www.mtp-gps.com/concept.html, Priority One GPS, 1 pg.
		Priority One GPS Traffic Preemption Hardware, http://www.mtp-gps.com/hardware.html, Priority One GPS, 2 pgs.
		The Traffic Preemption System for Emergency Vehicles Based on Differential GPS and Two-Way Radio, http://www.greenf.com/traffic.htm, Greenfield Associates website, 1999, 6 pgs.
		ZHAOSHENG YANG and DEYONG GUAN, Study on the Scheme of Traffic Signal Timing for Priority Vehicles Based on Navigation System, 2001 IEEE, pgs. 249-254.
		VEERENDER KAUL, Microwave Technology: Will it Threaten the Dominance of Optical Signal Preemption Systems?, May 8, 2002, 5 pgs.
		HORST E. GERLAND, Traffic Signal Priority Tool to Increase Service Quality and Efficiency, Prepared for: APTA Bus Operations Conference 2000, Salem April 2000, 9 pgs.
		M. MIYAWAKI, et al., Fast Emergency Preemption Systems (FAST), 1999 IEEE, pgs. 993-997.
		K. FOX et al., UTMC01 Selected Vehicle Priority in the UTMC Environment (UTMC01), UTMC01 Project Report 1- Part A, October 19, 1998, 45 pgs.

EXAMINER SIGNATURE	DATE CONSIDERED	
old.iii old		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. ³Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B	Attorney Docket Number	53860/C766
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/811,075
	Filing Date	March 24, 2004
	Applicant(s)	Aaron D. Bachelder, et al.
	Group Art Unit	2632
	Examiner Name	N/A

		OTHER DOCUMENTS
EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		U.S. Department of Transportation, <i>Advanced Transportation Management Technologies</i> , Chapter 6, Transit-Management Systems, Publication No. FHWA-SA-97-058, April 1997, pgs. 6-1 through 6-23.
		J.D. NELSON, et al., The Modelling of Realistic Automatic Vehicle Locationing Systems for Service and Traffic Control, November 9, 1995-November 11, 1995, pgs. 1582-1587.
		Assessment of the Application of Automatic Vehicle Identification Technology to Traffic Management, Appendix C: Evaluation of Potential Applications of Automatic Vehicle Monitoring to Traffic Management, Federal Highway Administration, July 1977, 28 pgs.
		ROBERT N. TAUBE, Bus Actuated Signal Preemption Systems: A Planning Methodology, Department of Systems-Design, University of Wisconsin-Milwaukee, May 1976, 120 pgs.
		Assessment of the Application of Automatic Vehicle Identification Technology to Traffic Management, Federal Highway Administration, July 1977, 44 pgs.
		R. M. GRIFFIN and D. JOHNSON, A report on the first part of the Northampton Fire Priority Demonstration Scheme-the 'before' study and EVADE, Crown Copyright 1980, 4 pgs.
	_	P. M. CLEAL, <i>Priority for Emergency Vehicles at Traffic Signals</i> , Civil Engineering Working Paper, Monash University, December 1982, 38 pgs.
A		P. DAVIES, et al., Automatic Vehicle Identification for Transportation Monitoring and Control, 1986, pgs. 207-224.
		N. B. HOUNSELL, Active Bus Priority at Traffic Signals, UK Developments in Road Traffic Signaling, IEEE Colloquium, May 5, 1988, 5 pgs.
		C. B. HARRIS, et al., Digital Map Dependent Functions of Automatic Vehicle Location Systems, 1988 IEEE, pgs. 79-87.
		P. L. BELCHER AND I. CATLING, Autoguide-Electronic Route Guidance for London and the U.K., 1989 IEEE Road Traffic Monitoring, pgs. 182-190.
		N. AYLAND and P. DAVIES, Automatic Vehicle Identification for Heavy Vehicle Monitoring, 1989 IEEE Road Traffic Monitoring, pgs. 152-155.
Î	•	K. KEEN, Traffic Control at a Strategic Level, 1989 IEEE Road Traffic Monitoring, pgs. 156-160.
		K. W. HUDDART, Chapter 7: Urban Traffic Control, Mobile Information Systems, 1990 Artech House, Inc., 23 pgs.

 		, · · · · · · · · · · · · · · · · · · ·
EXAMINER SIGNATURE	DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. ³Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B	Attorney Docket Number	53860/C766
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/811,075
	Filing Date	March 24, 2004
	Applicant(s)	Aaron D. Bachelder, et al.
(use as many sheets as necessary)	Group Art Unit	2632
	Examiner Name	N/A

		OTHER DOCUMENTS
EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		S. YAGAR and E. R. CASE, A Role for VNIS in Real-Time Control of Signalized Networks?, 1991, pgs. 1105-1109.
		R. F. CASEY, et al., Advanced Public Transportation Systems: The State of the Art, U.S. Department of Transportation, April 1991, 91 pgs.
		M. F. MCGURRIN, et al., Alternative Architectures for ATIS and ATMS, IVHS Proceedings, May 1992, pgs. 456-467.
		A. CEDER and A. SHILOVITS, A Traffic Signalization Control System with Enhancement Information and Control Capabilities, 1992 Road Transport Informatics Intelligent Vehicle Highway Systems, pgs. 325-333.
		Summary of Findings: Orange County IVHS Review, Orange County Intelligent Vehicle/Highway Systems Study, JHK & Associates, August 11, 1992, 86 pgs.
		Automatic Vehicle Location/Control and Traffic Signal Preemption Lessons from Europe, Chicago Transit Authority, September 1992, 140 pgs.
		J.D. NELSON et al., Approaches to the Provision of Priority for Public Transport at Traffic Signals: A European Perspective, Traffic Engineering Control, September 1993, pgs. 426-428.
		M. D. CHESLOW and S. G. HATCHER, Estimation of Communication Load Requirements for Five ATIS/ATMS Architectures, 1993 Proceedings of the IVHS America, pgs. 473-479.
		M. KIHL and D. SHINN, Improving Interbus Transfer with Automatic Vehicle Location Year One Report, August 1993, 35 pgs.

LAL PAS661097.1-*-01/10/06 10:57 AM

EXAMINER	DATE
SIGNATURE	CONSIDERED
SIGNATURE	CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. ³Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.